

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	11032	710/5,8,10,14-17,33,36.ccls. 711/100,112-114.ccls.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:32
L2	8619	controllers near3 (charges activates powers) near3 (drive unit dis\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:33
L3	304	L2 same request\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:33
L4	30	L1 and L3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:33
L5	300	(request\$3 demand\$3 command\$3 instruct\$3 instruction ) near3 controller near3 (charge activate power) near3 (drive unit dis\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:33
L6	19	L1 and L5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:33
L7	371	multiple near3 controllers near3 (charges activates powers)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:33
L8	3	L1 and L7	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/09/01 17:33

## EAST Search History

L9	2750	channel with (map table list) with (controller adapt\$1r)	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/01 17:33
L10	198	L1 and L9	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/01 17:33
S1	2	"20040186924".pn.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 14:11
S2	43	concatenat\$3 with logical adj unit	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:22
S3	738	JBOD	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:17
S4	9432235	determin\$3 with (data information file) extend\$3 (drive unit)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:47
S5	10109375	determin\$3 with (data information file) extend\$3 (drive unit volume logical)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:20
S6	719	S3 and S5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:19
S7	692513	determin\$3 with (data information file) extend\$3 with next near4 (drive unit volume logical)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:21

## EAST Search History

S8	710278	determin\$3 with (data information file) extend\$3 with (next adjacent) near4 (drive unit volume logical)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:47
S9	493	S3 and S8	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:21
S10	61	S9 and concatenat\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:22
S11	61852	determin\$3 with locat\$3 near5 (data information file) extend\$3 with (next adjacent) near4 (drive unit volume logical)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 12:36
S12	27277	(request demand instruction command) near5 (controller micro\$1controller adapt\$1r) with (access\$3 retriev\$3 read\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 16:21
S13	121	S11 same S12	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 16:55
S14	1667	respective\$2 near3 (controller micro\$1controller adapt\$1r) with (access\$3 retriev\$3 read\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:53
S15	38	S14 same logical	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 16:56

## EAST Search History

S16	7	S11 and S15	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:27
S17	2	"5,423,046".pn.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 16:58
S18	12	determin\$3 near5 contain\$3 near5 requested near5 data near2 set	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:34
S19	21	determin\$3 near5 contain\$3 near5 requested near5 set	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:40
S20	9	S19 not S18	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:35
S21	2	determin\$3 near5 (contain\$3 hold\$3) near5 (entire complete) near5 requested near5 (data file information)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:45
S22	70	determin\$3 near5 (contain\$3 hold\$3) near5 blocks near5 requested near5 (data file information)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:45
S23	54	determin\$3 with (data information file) with (extend\$3 range) with (next adjacent) near4 (drive unit volume logical)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:48

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S24	0	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:47
S25	6392176	determin\$3 with (data information file) with extend\$3 (drive unit)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:48
S26	660	determin\$3 with (data information file) with extend\$3 with (drive unit)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:48
S27	0	S14 and S26	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:54
S28	10	S26 and respective\$2 near3 (controller micro\$1controller adapt\$1r)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 17:54
S29	58	("5423046").URPN.	USPAT	OR	ON	2006/03/05 14:18
S30	72	read\$3 near5 block near5 (expand\$3 extend\$3 range) near3 (plurality several two second)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:16
S31	33	S30 same (storage drive)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 15:25
S32	2	S31 same controller	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 15:24

## EAST Search History

S33	36	S30 same (storage drive dis\$2)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 15:26
S34	10	S30 with (storage drive dis\$2)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 15:26
S35	72	read\$3 near5 (block dataset) near5 (expand\$3 extend\$3 range) near3 (plurality several two second)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:17
S36	2	slaughter-gregory.in. and sun\$.as.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:18
S37	4	HIGHLY adj AVAILABLE adj CLUSTER adj VIRTUAL adj DISK adj SYSTEM	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:21
S38	1	"2002514813"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:27
S39	55	SASAKI-KATSUTOSHI.in.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:27
S40	0	S39 and ricoh\$.as.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:27

## EAST Search History

S41	0	S39 and multi\$1drive adj controller	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:28
S42	3	S39 and controller	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:30
S43	0	EP0709779	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:31
S44	0	EP adj "0709779"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:31
S45	6	"0709779"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:31
S46	7985	controllers near3 (charges activates powers) near3 (drive unit dis\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:33
S47	66	S46 same balanc\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 10:57
S48	19	S46 with balanc\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 10:57

## EAST Search History

S49	77	controllers near3 (charges activates powers) near3 hard near3 (drive unit dis\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:29
S50	104	plurality near3 controllers near3 (charges activates powers) near3 (drive unit dis\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:29
S51	104	plurality near3 controllers near3 (charges activates powers) near3 (drive unit dis\$2)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:32
S52	2	S51 same (fault tolerance balance fail)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:30
S53	2	S51 same (fault tolerance balance fail\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:30
S54	478	controllers near3 (charges activates powers) near3 (drive unit dis\$2) with (access\$3 read\$3 writ\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:33
S55	30	controllers adj3 (charges activates powers) adj3 (drive unit dis\$2) adj5 (access\$3 read\$3 writ\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:38
S56	30	controller adj3 (charges activates powers) adj3 (drive unit dis\$2) adj5 (access\$3 read\$3 writ\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:39



## EAST Search History

S57	7	controller adj3 (charges activates powers) adj3 (drive unit dis\$2) adj5 (retriev\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:39
S58	2	("20020199129"   "20040243761").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 12:40
S59	1	("2002/0199129").URPN.	USPAT	OR	ON	2006/03/06 12:48
S60	23	controllers near3 (charges activates powers) near3 (drive unit dis\$1) with retriev\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:14
S61	592	controllers near3 (charges activates powers) near3 respective\$2	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:50
S62	72	S61 with connected	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:23
S63	10116	710/5,8,10,14-17,33,36.ccls. 711/100,112-114.ccls.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:51
S64	155	S46 and S63	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:24
S65	276	S46 same request\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:24

## EAST Search History

S66	27	S63 and S65	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:24
S67	279	(request\$3 demand\$3 command\$3 instruct\$3 instruction ) near3 controller near3 (charge activate power) near3 (drive unit dis\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:34
S68	18	S63 and S67	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:34
S69	338	multiple near3 controllers near3 (charges activates powers)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 14:51
S70	3	S63 and S69	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 15:23
S71	0	dual near3 controller near3 logical near2 unit	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 15:23
S72	18	multiple near3 controller near3 logical near2 unit	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 15:24
S73	10	("3702006"   "5313584"   "5317731"   "5440743"   "5459864"   "5682537"   "5694571"   "5764922"   "5787304"   "5875343").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 17:26
S74	34	respond\$3 with result with adapt\$1r	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 17:30

## EAST Search History

S75	67	(respond\$3 acknowledge) near5 (adapt\$1r controller) near5 (extend\$3 chain\$3 concatenat\$3 join\$3 daisy\$1chain\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 17:34
S76	8	S75 with logical	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 17:33
S77	59	S75 not S76	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:40
S78	42259	channel with (map table list)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:41
S79	2445	channel with (map table list) with (controller adapt\$1r)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:41
S80	175	S63 and S79	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:41
S81	2	S79 same lba	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:44
S82	55	lba near3 (map table list) with (controller adapt\$1r)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:47
S83	30	lba near3 range with (controller adapt\$1r)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:51
S84	3	concatenation adj logical adj unit	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 18:51
S85	56	requests near3 append\$3 with unit	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 12:39
S86	10	S85 same storage	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 12:37

## EAST Search History

S87	0	two adj requests near3 append\$3 with unit	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 12:39
S88	0	two adj requests near3 append\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 12:39
S89	5	additional adj request near3 append\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 16:44
S90	421	(virtual logical) adj (channel path) with encod\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 16:58
S91	26	S90 with interface	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 16:50
S92	1	S91 same storage	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 16:50
S93	7	S90 same storage	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 16:58
S94	870	(virtual logical) adj (channel path) same encod\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 16:58

## EAST Search History

S95	28	S94 same storage	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/23 13:20
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